



Missouri
Department of
Natural Resources

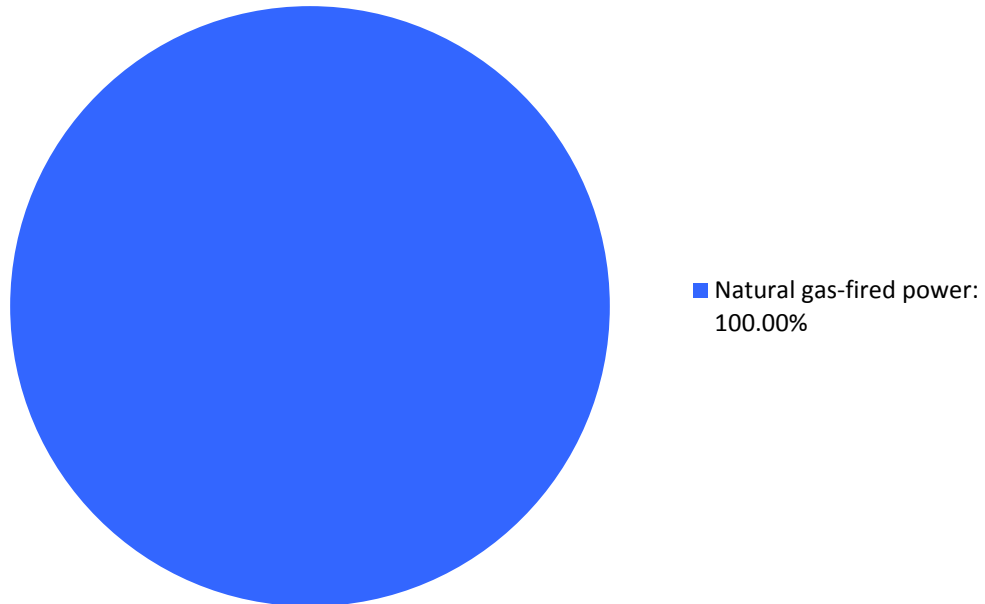
Power Plant: Essex
Plant Owner: Associated Electric Cooperative, Inc.
Power generated in 2009 from non-renewable and renewable sources

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated in 2009 (MWh)	Percent of Total	
Non-renewable sources						
Coal-fired power						
Natural gas-fired power	91,682	100.00%		7,738	100.00%	
Oil-fired power						
Nuclear power						
Other non-renewable power						
Non-renewable total	91,682	100.00%	100.00%	7,738	100.00%	100.00%
Renewable sources						
Hydroelectric Power						
Wind						
Waste and biomass						
Solar						
Geothermal						
Landfill Gas						
Renewable total	0	0.00%	0.00%	0	0.00%	0.00%
Grand total all sources	91,682		100.00%	7,738		100.00%

Fuel Type	Physical Units	Number of Units
Natural Gas	Mcf	90,506



Net Generation by Fuel Type, 2009 for Essex





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Essex
Emissions from Electricity Generated in 2009

Plant	Carbon Dioxide(CO2) (Tons)	Carbon Monoxide(CO) (Tons)	Ammonia (NH3) (Tons)	Nitrogen Oxides (NOx) (Tons)	Sulfur Dioxides (SO2) (Tons)
Essex	5,070.24	0.06	NV	2.67	0.04

Plant	Volatile Organic Compounds (VOC) (Tons)	Course Particulate Matter (PM10) (Tons)	Fine Particulate Matter (PM2.5) (Tons)	Mercury (Hg) (LBS)
Essex	0.09	0.28	0.28	NV

'NV' = Emissions value not available.



Pollution controls installed on Essex

SO2 Controls			
Plant	Control Equipment	Sorbent Type	Operational Efficiency
Essex	No SO2 Controls Installed		

NOX Controls				
Plant	Device Type	Description	Capture Efficiency	Control Efficiency
Essex	MODIFIED FURNACE OR BURNER DESIGN	LOW NOX BURNERS	100.00%	40.00%

Data Sources

- Emissions Data: Missouri Department of Natural Resources, Air Pollution Control Program, Missouri Emissions Inventory System (MOEIS)
<http://www.dnr.mo.gov/env/apcp/moeis/emissionsreporting.htm>
- CO2 Emissions calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data
- Fuel Consumption and Generation Data: United States Energy Information Administration, Form 923, United States Department of Energy
http://www.eia.gov/cneaf/electricity/page/eia906_920.html